

1 **ABSTRACT**

2 A network computer maintains a directory of objects having multi-valued  
3 attributes. The attributes are comprised of individual linked values having  
4 conflict-resolution data that indicates a change to an object at an attribute-value  
5 level. A second network computer stores a replica of the directory in which a  
6 replica of the objects is maintained. The computers replicate the objects in the  
7 directories and update the individual linked values of the attributes. Replication  
8 conflicts are identified and resolved with the conflict-resolution data at the  
9 attribute-value level of the objects.

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